In re the application of: James P. Richmond, *et al.*	Group Art Unit: 2178
U.S. Serial No.: 10/627,328	Examiner: Samir Termanini
Filed: July 25, 2003	
For: *Editing a Portable, Dynamic and Abstract View Definition of a Network Object Database*	
Attorney Docket No.: ENB-009/(E00378.70188)	

Commissioner for Patents
P.O. Box 1450
Alexandria, VA

"Express Mail" Mailing Label Number: EV 956466447 US

Date of Deposit February 25, 2008

I hereby certify that this transmittal letter and the papers referred to as being enclosed therein are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner for Patents, , Washington, DC 20231.

Signature

David R. Burns

Please Print Name of Person Signing

DECLARATION PURSUANT TO 37 CFR §1.131

Dear Sir:

Pursuant to 37 C.F.R. §3.71, the undersigned, who is empowered to act on behalf of the assignee, namely Enterasys Networks, Inc., submits this Declaration pursuant to 37 C.F.R. §1.131 to antedate United States Patent Publication Number 2003/0208480 to Faulkner *et al.* entitled "Method and Apparatus for Collecting and Displaying Network Device Information" cited by the U.S. Patent and Trademark Office during examination of U.S. Patent Application No. 10/627,328.

Pursuant to 37 C.F.R. § 3.73(b), Enterasys Networks, Inc., a corporation of Delaware, certifies that it is the assignee of the entire right, title and interest in U.S. Patent Application No. 10/627,328.

Submitted herewith as Exhibit A are copies of Assignments of U.S. Patent Application U.S. Serial No. 10/627,328 from James P. Richmond, Steven Charles Bir, Brian Stanley Locke, Christopher McClain, Daniel Timothy Murphy and David Scott Grieve to Enterasys Networks, Inc. as documentary evidence of ownership by Enterasys Networks, Inc. The Assignments were submitted for recordation at the U.S. Patent and Trademark Office on January 17, 2003. A copy of each Notice of Recordation of Assignment Document is also enclosed herewith as Exhibit B.

The undersigned has reviewed the documentary evidence and certifies that, to the best of Assignee's knowledge and belief, title to U.S. Patent Application No. 10/627,328 is in Enterasys Networks, Inc.

Pursuant to 37 C.F.R. §1.131, the undersigned hereby declares as follows:

(1)   James P. Richmond, a citizen of the United States, residing at 52 Bassett Lane, Newfields, New Hampshire 01810, Steven Charles Bir, a citizen of the United States, residing at 66 Mast Road, Lee, New Hampshire 03824, David Scott Grieve, a citizen of the United States, residing at 2 Partridgeberry Lane, Durham, New Hampshire 03824, Brian Stanley Locke, a citizen of the United States, residing at 46 Sheep Road, Lee, New Hampshire 01810, Christopher McClain, a citizen of the United States, residing at 56 Durham Road, Unit 20, Dover, New Hampshire 01810, and Daniel Timothy Murphy, a citizen of the United States, residing at 3 Decato Drive, Lee, New Hampshire 03824 are co-inventors of the subject matter described and claimed in the above-identified application hereinafter "inventors".

(2)   Prior to May 3, 2002, the earliest priority date of United States Patent Publication Number 2003/0208480 to Faulkner *et al.* entitled "Method and Apparatus for Collecting and Displaying Network Device Information," the inventors conceived and reduced to practice a system and method for editing a portable, dynamic and abstract view definition of a network

object database, as described and claimed in the above-referenced patent application in this country, a NAFTA country, or a WTO country, as evidenced by the following:

(a)   An Invention Disclosure Form from Enterasys Networks Inc., documenting that a beta version of the code embodying the claimed invention was used at a customer site in this country for beta testing on March 7, 2002. A copy of this Invention Disclosure Form is attached hereto as Exhibit C. See Exhibit C, #7(e).

The beta version, on March 7, 2002, included an embodiment of the invention including all features claimed in the above-referenced patent application. The beta version operated for its intended purpose. One of the intended purposes was to demonstrate and verify the structure, functionality and operation of a system and method for editing a view of a network object database including a plurality of network object types as recited in claims 1-44. As such, Exhibit C establishes that an actual reduction to practice of the invention occurred on or before March 7, 2002, prior to May 3, 2002 which is the earliest priority date of the Faulkner reference. See MPEP 2138.05.

Shortly after the successful beta testing of the beta version of code embodying the claimed invention, the claimed technology was sold on May 1, 2002, which further evidences that the invention was reduced to practice prior to May 3, 2002, the earliest priority date of the Faulkner reference. See Exhibit C, #7(b), (c).

Exhibit C also documents a "date of first fabrication" of the NetSight Atlas Console on June 1, 2002. See Exhibit C, #8. This is the date on which the NetSight Atlas Console product was released for public distribution. NetSight Atlas Console is the name of the product which embodies the claimed subject matter in the above-referenced application. The undersigned attests, to the best of his knowledge, that the structure, function and operation of the invention as claimed in the above-referenced application did not change between the date of its actual reduction to practice (on or before March 7, 2002) and the date of first fabrication of the NetSight Atlas Console product (June 1, 2002).

(b)   A Help Document which is a set of screenshots captured from a help wizard in NetSight Atlas Console as submitted for beta testing of the claimed invention on March 7, 2002. As illustrated in the Help Document, the help wizard provides assistance to a user in performing the claimed operation of the invention, further evidencing that the invention was completed, reduced to practice and worked for its intended purpose on or before March 7, 2002. A copy of the Help Document is attached hereto as Exhibit D.

I hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this Application for Patent or any patent issuing thereon.

_____
Ann C. Bonis

_____
February 22, 2008
Date

ASSIGNMENT

Ex. A

For good and valuable consideration, the sufficiency of which is acknowledged, we the undersigned James P. Richmond of Newfields, New Hampshire, Steven Charles Bir of Lee, New Hampshire, David Scott Grieve of Durham, New Hampshire, Brian Stanley Locke of Lee, New Hampshire, Christopher McClain of Dover New Hampshire and Daniel Timothy Murphy of Lee, New Hampshire hereby:

Sell, assign and transfer to Enterasys Networks, Inc. a Delaware corporation having a place of business at 50 Minuteman Road, Andover, Massachusetts 01810, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office, bearing attorney docket no. E00378.70188.US and titled EDITING A PORTABLE, DYNAMIC AND ABSTRACT VIEW DEFINITION OF A NETWORK OBJECT DATABASE, and in said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority;

Agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, we agree to carry out in good faith the intent and purpose of this assignment, by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to us relating to said inventions and the history thereof, and generally by doing everything reasonably possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee;

Request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said Assignee; and

Covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

This instrument is executed under seal.

704870-1

5/20/2003
Date

Brian Stanley Locke

STATE OF _New Hampshire_ :

COUNTY OF _Strafford_ :

Subscribed and sworn to before me this _20th_ day of _May 2003_

SEAL

Notary Public
My Commission Expires _11/10/2004_

5/20/2003
Date

ChristopherMcClain

STATE OF _New Hampshire_ :

COUNTY OF _Strafford_ :

Subscribed and sworn to before me this _20th_ day of _May 2003_

SEAL

Notary Public
My Commission Expires _11/10/2004_

20 May 2003
Date

Daniel Timothy Murphy

STATE OF _New Hampshire_ :

COUNTY OF _Strafford_ :

Subscribed and sworn to before me this _20th_ day of _May 2003_

SEAL

Notary Public
My Commission Expires _11/10/2004_

704870-1

Ex. B

UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

FEBRUARY 13, 2004

PTAS

WOLF GREENFIELD & SACKS, P.C.
DANIEL P. MCLOUGHLIN
600 ATLANTIC AVENUE
FEDERAL RESERVE PLAZA
BOSTON, MA 02210

102515653A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF
THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS
AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER
REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE
INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA
PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD
FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY
CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723.
PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE,
ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY,
SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/25/2003   REEL/FRAME: 014333/0466
                                    NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
    RICHMOND, JAMES P.   DOC DATE: 05/20/2003

ASSIGNOR:
    BIR, STEVEN CHARLES   DOC DATE: 05/21/2003

ASSIGNOR:
    LOCKE, BRIAN STANLEY   DOC DATE: 05/20/2003

ASSIGNOR:
    MCCLAIN, CHRISTOPHER   DOC DATE: 05/20/2003

ASSIGNOR:
    MURPHY, DANIEL TIMOTHY   DOC DATE: 05/20/2003

014333/0466 PAGE 2

ASSIGNEE:
    ENTERASYS NETWORKS, INC.
    50 MINUTEMAN ROAD
    ANDOVER, MASSACHUSETTS 01810

SERIAL NUMBER: 10627328   FILING DATE:
PATENT NUMBER: ISSUE DATE:

VIOLET MCCOY, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

RECORD^ **uo-04-2003** **:T**

FORM PT.595 U.S. *7-25*

OMB No. 0651-0011 (exp. 4/94)

||||||| |||| ||| |||| ||| |||| |||| |||

102515653

DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Commissioner for Patents : Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
James P. Richmond, Steven Charles Bir,
Brian Stanley Locke, Christopher McClain,
Daniel Timothy Murphy

Additional name(s) of conveying party(ies) attached? [ ] Yes [X] No

3. Nature of conveyance:

[X] Assignment   [ ] Merger.
[ ] Security Agreement   [ ] Change of Name
[ ] Other_____

Execution Date : **May 20, 21, 2003**

2. Name and address of receiving party(ies)

Name: **Enterasys Networks, Inc.**

Internal Address:

Street Address: **50 Minuteman Road**

Andover, MA 01810

Additional name(s) & addresses(es) attached? [ ] Yes [X] No

4. Application number(s) or patent number(s):   *18,62,32-8*

If this document is being filed together with a new application, the execution date of the application is
May 20, 21,2003
A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? [ ] Yes **[X]** No

5. Name and address of party to whom correspondence
Concerning document should be mailed:

Name: Daniel P. McLoughlin, Reg. No. 46,066
Address: Wolf, Greenfield & Sacks, P.C.
Federal Reserve Plaza
600 Atlantic Avenue
Boston, MA 02210

6. Total number of applications and patents involved: **[1]**

7. Total fee (37 CFR 3.41) $ **40.00**

[ ] Enclosed

[X] Authorized to be charged to deposit account

The Commissioner is authorized to charge any
deficiencies in the enclosed payment to:

8. Deposit Account No: 50/1127

08/07Z003 BBYRHE   000000E3 SOiiE? 106873.

01 F *jmr*   4CTOST   DO NOT USE THIS SPACE

9. Statement and signature^
v. To the best of my knowledge and belief Jhe foregoing information is true and correct and any attached copy is a
truehsopy of the original document.

Daniel P. McLoughlin			7/25/0?
Name of Person Signing		Signature	Date

Total number of pages including cover sheet, attachments, and document: **[4]**

Mail documents to be recorded with required cover sheet information to (modify as appropriate):
Mail Stop Patent Application
Director - U.S. Patent and Trademark Office (when filed separately from a new application)
Commissioner of Patents (when filed with a new application)
PO Box 1450, Alexandria, VA 22313-1450

724573.1

FEBRUARY 13, 2004

PTAS

DANIEL P. MCLOUGHLIN
WOLF, GREENFIELD & SACKS, P.C.
600 ATLANTIC AVENUE
FEDERAL RESERVE PLAZA
BOSTON, MA 02210

102515654A

UNITED STATES PATENT AND TRADEMARK OFFICE
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ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY,
SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/25/2003   REEL/FRAME: 014333/0433
                                      NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
    GRIEVE, DAVID SCOTT   DOC DATE: 07/15/2003

ASSIGNEE:
    ENTERASYS NETWORKS, INC.
    50 MINUTEMAN ROAD
    ANDOVER, MASSACHUSETTS 01810

SERIAL NUMBER: 10627328   FILING DATE:
PATENT NUMBER: ISSUE DATE:

ANTIONE ROYALL, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

DOCKET NO. E00378.70188.US

7-25-03 REC 08-04-2003 SHEET

FORM PTO-1595 U.S.
(Rev. 6-93)
OMB No. 0651-0011 (exp. 4/94)

102515654

DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Commissioner for Patents : Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): **David Scott Grieve**	2. Name and address of receiving party(ies)

Additional name(s) of conveying party(ies) attached? [ ] Yes [X] No

Name: **Enterasys Networks, Inc.**

Internal Address:

3. Nature of conveyance:

[X] Assignment   [ ] Merger
[ ] Security Agreement [ ] Change of Name
[ ] Other _____

Street Address: **50 Minuteman Road**

Andover, MA 01810

Execution Date : **July 15, 2003**

Additional name(s) & addresses(es) attached? [ ] Yes [X] No

22240 U.S. PTO 10/627328

4. Application number(s) or patent number(s): 10,627328

If this document is being filed together with a new application, the execution date of the application is
July 15, 2003
A. Patent Application No.(s)   B. Patent No.(s)

Additional numbers attached? [ ] Yes **[X]** No

5. Name and address of party to whom correspondence Concerning document should be mailed:

Name: Daniel P. McLoughlin, Reg. No. 46,066
Address: Wolf, Greenfield & Sacks, P.C.
         Federal Reserve Plaza
         600 Atlantic Avenue
         Boston, MA 02210

6. Total number of applications and patents involved: **[1]**

7. Total fee (37 CFR 3.41) $ 40.00

[ ] Enclosed

[X] Authorized to be charged to deposit account

The Commissioner is authorized to charge any deficiencies in the enclosed payment to:

08/04/2003 DBYRNE   00000022 501127   10627328
01 FC:8021   40.00 DA

8. Deposit Account No: 50/1127

DO NOT USE THIS SPACE

9. Statement and signature
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Daniel P. McLoughlin				7/25/03
Name of Person Signing		Signature		Date

Total number of pages including cover sheet, attachments, and document: **[4]**

Mail documents to be recorded with required cover sheet information to (modify as appropriate):
Mail Stop Patent Application
Director - U.S. Patent and Trademark Office (when filed separately from a new application)
Commissioner of Patents (when filed with a new application)
PO Box 1450, Alexandria, VA 22313-1450

724573.1

ASSIGNMENT

For good and valuable consideration, the sufficiency of which is acknowledged, we the undersigned James P. Richmond of Newfields, New Hampshire, Steven Charles Bir of Lee, New Hampshire, David Scott Grieve of Durham, New Hampshire, Brian Stanley Locke of Lee, New Hampshire, Christopher McClain of Dover New Hampshire and Daniel Timothy Murphy of Lee, New Hampshire hereby:

Sell, assign and transfer to Enterasys Networks, Inc. a Delaware corporation having a place of business at 50 Minuteman Road, Andover, Massachusetts 01810, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office, bearing attorney docket no. E00378.70188.US and titled EDITING A PORTABLE, DYNAMIC AND ABSTRACT VIEW DEFINITION OF A NETWORK OBJECT DATABASE, and in said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority;

Agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, we agree to carry out in good faith the intent and purpose of this assignment, by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to us relating to said inventions and the history thereof, and generally by doing everything reasonably possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee;

Request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said Assignee; and

Covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

This instrument is executed under seal.

Date _____   James P. Richmond _____

STATE OF _____ :

COUNTY OF _____ :

Subscribed and sworn to before me this _____ day of _____

SEAL

_____
Notary Public
My Commission Expires _____

Date _____   Steven Charles Bir _____
STATE OF _____ :

COUNTY OF _____ :

Subscribed and sworn to before me this _____ day of _____

SEAL

_____
Notary Public
My Commission Expires _____

July 15, 2003 _____   David Scott Grieve _____
Date   David Scott Grieve

STATE OF Mass _____ :
COUNTY OF Middlesex _____ :

Subscribed and sworn to before me this 15 day of July 2003

SEAL

Denise Brooks _____
Notary Public
My Commission Expires 11/13/2009

_____   _____
Date   Brian Stanley Locke

STATE OF _____ :

COUNTY OF _____ :

Subscribed and sworn to before me this _____ day of _____

SEAL
                                          _____
                                          Notary Public
                                          My Commission Expires _____

_____   _____
Date   Christopher McClain

STATE OF _____ :

COUNTY OF _____ :

Subscribed and sworn to before me this _____ day of _____

SEAL
                                          _____
                                          Notary Public
                                          My Commission Expires _____

_____   _____
Date   Daniel Timothy Murphy

STATE OF _____ :

COUNTY OF _____ :

Subscribed and sworn to before me this _____ day of _____

SEAL
                                          _____
                                          Notary Public
                                          My Commission Expires _____

704870-1

Invention Title _____

File No. _____ ENT- 033 _____

Date _____

ENTERASYS
NETWORKS™

INVENTION DISCLOSURE FORM

The purpose of this form is to assist inventor(s) in the preparation of an invention disclosure. The object is to minimize the amount of time that the inventor(s) must spend in processing a patent application without minimizing the importance and scope of the invention. The questions are designed to elicit enough information about the invention (e.g., the perceived novel features, what problem(s) it solves, why it is better or different from known existing technology, etc.) to assist the Intellectual Property Review Council (IPRC) make an informed decision about protection of the described invention.

If you have any questions regarding this form or the patent application process, please contact the Patent Counsel, Chris A. Caseiro, at (603) 337-1754 or ccaseiro@enterasys.com.

The following information is submitted to the IPRC as the basis for a preliminary patentability investigation and, should the IPRC approve the disclosure for protection, it will be used by our outside patent lawyers in preparation of a patent application for filing in the United States Patent Office and, in some instances, in other countries:

1. Title of Invention: Atlas FlexViews

2. Provide a summary of the invention: An Atlas FlexView is a combination of software components and methodologies that permit the construction and persistence of dynamic views of SNMP manageable MIB data stored on remote network devices. The basic design of the Atlas FlexView is such that the data that is necessary to create an SNMP request to retrieve and modify data stored on a device is encapsulated within an XML persisted data format. This data contains both the information necessary to construct the request for the MIB objects and the information necessary to construct the view.

    Through the Atlas FlexView construction interface, users are capable of attaching precompiled MIB information to specific columns of a table component. By adding columns to a table with this data encoded in the column definition, users can create customized views of any MIB objects that they may want to view or modify. The XML persisted definition of this view contains all the necessary information to recreate it. Any user running the NetSight Atlas Console can use a custom created view simply by loading the definition.

3. Describe what you believe to be the point of novelty of the invention:

    The Atlas FlexView provides a new way to construct management interfaces for IETF standard MIB objects on network devices. Instead of providing network managers with a statically defined interface for managing devices, the NetSight Atlas Console application allows users to construct dynamic views of their choosing.

Through the process of encapsulating SNMP request data with the data definition of the user interface, users are able to associate specific MIB data objects with columns in a table. The table displays that data for all selected devices on any network discovered by the user. This user defined view is then persisted in XML. Because both the information to create the view and SNMP requests are encapsulated in this XML definition, the user can distribute the view to other owners of the software. The process of creating dynamically constructed SNMP management views that are also portable is believed to be totally new.

4. Describe the problem(s) solved by the invention:

Software created to manage MIB data on remote devices has previously relied on statically created views or scripting languages. Such views either presented the MIB data for the user in an abstracted form with no ability to modify the MIB objects involved or allowed the user to select MIB objects, but provided no abstraction. Also if the design of the application presented a static set of manageable MIBs, recoding was required as new MIBs were defined.

The Atlas FlexView design resolves these issues by separating the data needed to exchange information with SNMP capable devices from the mechanism of that communication. Through the user interface, new management views are created dynamically that allow users to read and modify MIB objects beyond those defined at the time of the application's development, while still offering a layer of abstraction.

Furthermore, by encoding the request definitions in XML along with the view definition, these custom created views are made portable. As long as the MIB object that the user attempts to manage is defined according to the IETF standard, any object is manageable with a FlexView. In this way, updated views for newly defined MIB objects can be distributed to owners of the Atlas FlexView software without recoding the software.

5. To the best of your present knowledge, describe the current state of the art and how your invention is different. This does not require you to conduct an independent review or search of the field of your invention. Instead, please rely on your present knowledge:

Presently current SNMP management software falls into two categories. The first category relies on static coding to present MIB data in an abstracted format meaningful to users. The second category allows flexibility in the choice of MIB objects, but presents the data in a raw, un-abstracted format.

For static views, only SNMP manageable MIB objects that are known at compile time are accessible through such software. Whenever there are modifications to existing MIB definitions or new MIBs are created, software engineers are required to create new code to handle the changes. This new code then has to be packaged and distributed either as a new purchase or an upgrade to an existing product. For non-static views and scripting languages, a user can choose which MIB object to display or edit. However, the logic that makes the data from that MIB object meaningful is missing.

Atlas FlexViews changes this paradigm by providing a mechanism to dynamically create management views that are portable. The user interface for constructing an Atlas FlexView

allows the user to associate any IETF standard MIB object with a column in a table view. As a new MIB object is defined, the user can simply create a new association. The user can initially abstract the data presented in a manner that is meaningful by labeling the column. The application software provides an additional layer of abstraction by collating the data according to its instancing. Common data associated with a given device interface is displayed in the same row of the FlexView's table.

Finally, the user can take the XML definition and transmit it to any other owner of the software. This other user is then able to manage any devices supporting the MIB objects contained in the definition. No new software engineering effort is required and no additional distribution is required, resulting in significant revenue savings.

6. Attach to this Disclosure any relevant notes, sketches, drawings, schematics, photographs, test results, test reports, presentations that describe the invention:

7. Identify whether the invention has been:
    (a) Incorporated in any tests or experiments? Yes or No
        If Yes, approximate date of first incorporation:
    (b) Offered for sale? Yes or No Yes as part of it's parent application.
        If Yes, date of first offer for sale: May 1, 2002
    (c) Sold? Yes or No   Yes
        If Yes, date of first sale: May 1, 2002
    (d) Described in printed publication? Yes
        If Yes, date and name of publication: 4/23/2002 was date of first public announcement.

    (e) Used other than at an Enterasys facility? Yes or No   Yes
        If Yes, where first used externally: Customer site
        If used externally, date and purpose of such first external use: March 7, 2002 Beta testing
    (f) Was the invention developed in whole or in part under a government contract? Yes or No
        No
        If Yes, provide contract number(s):

8. Is this invention embodied in a product presently being made? Yes or No Yes
        If Yes, date of first fabrication: NetSight Atlas Console June 1, 2002

9. Will a product embodying this invention be made, sold, or offered for sale in the future? Yes or No - Yes
        If Yes, approximate dates of planned first fabrication, first offer for sale, and first sale:
        May 1, 2002

10. Was the invention conceived of or developed as part of a joint project with another person or persons not employed by Enterasys? Yes or No - No
        If Yes, identify each such person(s) and the name(s) of such person(s)' employer(s):

11. Was the invention disclosed to anyone else not employed by Enterasys? Yes or No Yes

If Yes, identify party to whom the invention was disclosed: Customers
If Yes, was the disclosure made under a Non-Disclosure Agreement (NDA)? Yes or No No
If No NDA, identify the date(s) and location(s) of the disclosure: January 01, 2002 Customer sites.

12. Please identify any prior public documents or products of which you are aware that may be relevant to the novelty of your invention. (Please note that you are not required to seek such information, simply describe the information of which you are aware.):

Books used during the development of this software were:
Graphic Java, Mastering the JFC by David M. Geary, ISBN 0-13-079667-0, copyright 1999
XML Developers Guide by Fabio Arciniegas, ISBN 0-07-212648-5, copyright 2001

13. Date you first thought of the invention: Invention was first conceived 10/01/2001

14. Do you have any documentation establishing when you first thought of the invention? Yes or No
If Yes, attach such documentation to this disclosure. Yes

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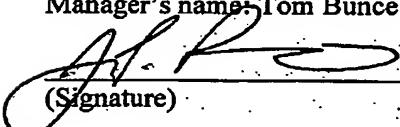
_____   8/21/2002
(Signature)   (Date)

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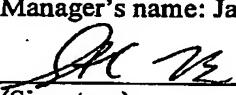
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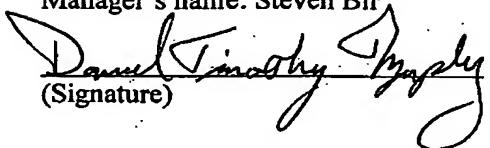
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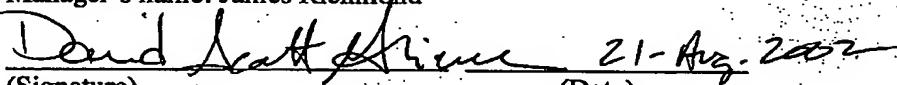
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Manager's name: Steve Bir
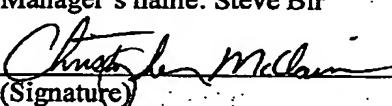
_____ _8/21/2002_
(Signature)   (Date)

FOR INVENTOR'S MANAGER

Disclosure Read and Approved ✓ Disapproved ____ for Submission to IPRC:

Manager's Name:

Telephone extension and Building:

_____   8/28/2002

(Signature)   (Date)

FOR RESPONSIBLE IPRC MEMBER

Disclosure Read and Approved _____ Disapproved _____ for Submission to IPRC:

Responsible Member's Name:

Telephone extension and Building:

_____   _____

(Signature)   (Date)

FlexView Wizard

The FlexView Wizard is a series of windows that take you step by step through creating your own customized views. FlexViews can be configured to show a wide variety of information about the devices in a device group. The wizard lets you add custom tabs to the right panel to display MIB information as a table, bar graph or pie chart. You can define as many FlexViews as needed to cover the information that you need to manage your network.

FlexView Properties

The FlexView Properties window is where you define the name for a particular FlexView and add any notes to describe it's purpose or special conditions.

Click areas in the window for more information.
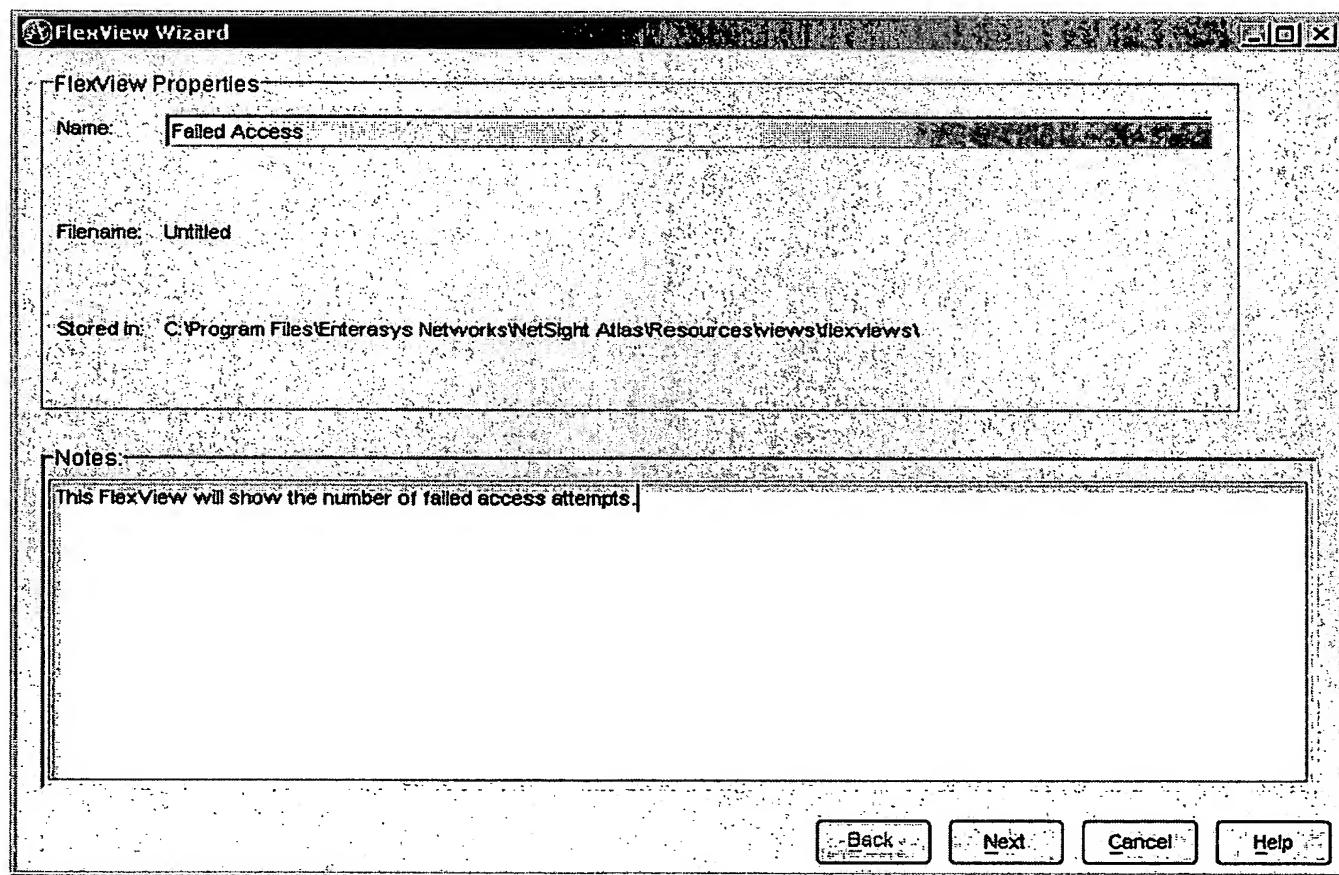
Name
> A name that you assign to this FlexView. If you are editing the **Properties** for an existing FlexView, you can change the name by highlighting the text in this field and typing your changes.

Filename, Stored in
> The name of the file and the path where the information for this FlexView is saved. When creating a new FlexView, the Filename field contains **Untitled** and the **Stored in** field is set to the default path for FlexViews (*<NetSight Atlas install area>*\NetSight Atlas Console\FlexViews\).

Notes
> Use this text field to create a detailed description of this FlexView.

FlexView Columns

This window lets you define, arrange and name columns that will appear in your FlexView. The left side of the window shows columns as they are defined and the right side contains two tabs, Memorized Columns and Details View. Each of these tabs is described in the following sections.

__Click areas in the window for more information.__
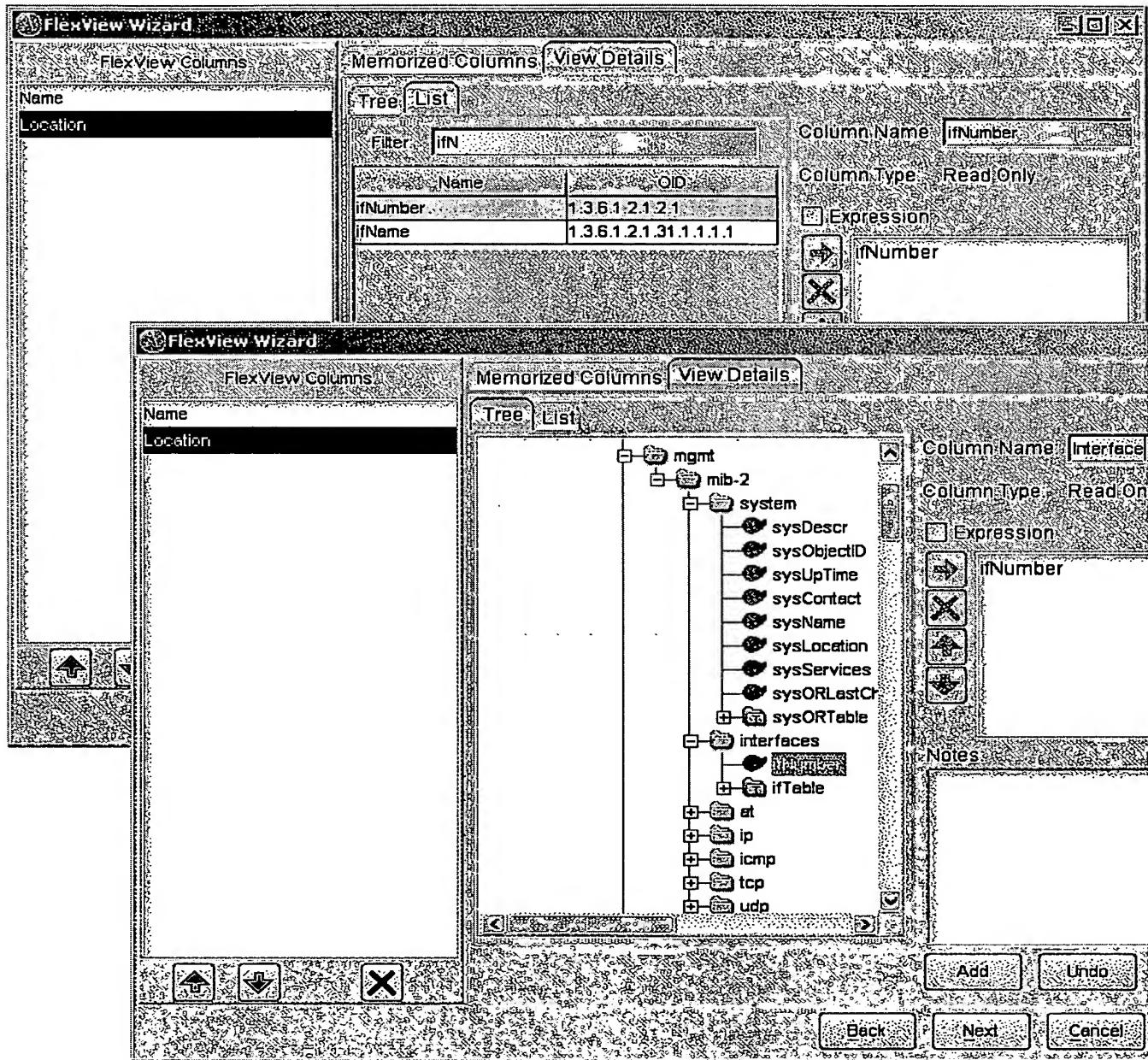
FlexView Columns

> This panel lists the columns that you've defined for your new Flexview to show the value of selected MIB objects. Selections are added to this panel by searching the **Memorized Columns** tab or **View Details** tab, selecting MIB objects and adding them to the list. The up, down, and delete buttons below the list are used to rearrange or remove specific objects. The order of the columns determines their appearance in the FlexView table. Top to bottom here corresponds to left to right in the resulting table.

FlexView Columns Buttons

(Delete Item)

Removes the currently selected column to the FlexView Columns list.

(Move Up)

Moves the column, selected in the FlexView Columns list up one position with each click.

(Move Down)

Moves the column, selected in the FlexView Columns list down one position with each click.

FlexView Columns – View Details Tab

The **View Details** tab lets you navigate the Tree tab or search the List tab to find of MIB objects to show in your new FlexView. The left side of this panel contains a **Tree** tab and a **List** tab. The Tree tab is presented as a hierarchy where you can select MIB objects from the supported MIBs, while the List tab lets you make selections from a filtered list of those objects. The right side of this panel lets you name your columns, create Expressions and add a detailed description.

View Details

The center panel contains two tabs, giving you a choice of how to select MIB objects that will appear in your FlexView.

Tree Tab

This tab shows the supported MIBs as a tree hierarchy. You can expand the tree to select MIB objects that you want to appear in your FlexView. Once an object selected from the tree, you can name the column (Column Name) that will contain this object's value and add your selection to the list in the FlexView Columns panel.

List Tab

This tab lets you can search the supported MIBs for object names that match a filter string. When matches are found, a list of objects the string is created. By refining the filter string, it's possible to shorten the list to locate a particular object, and select the object ID. With the object ID selected, you can then name the column (Column Name) for that object ID and add your selection to the list in the FlexView Columns panel.

Filter

The Filter field is where you can type a string (followed by the Enter key) that is compared against the object IDs in the supported MIBs. The Enter key initiates the search/compare. Object IDs that contain the string are displayed in the list. The list can be changed or refined by modifying the Filter string.

Column Name

This is a name that you assign to the column where the value of this MIB object will be displayed.

Column Type

This field shows the access permitted for the currently selected MIB object (Read Only or Read Write).

Expression

When checked, a list of object IDs can be defined for the current column. As devices are polled, each object ID in the list, from top to bottom, is queried and the first value returned is the value that will appear for this column. The buttons to the left of the list are used to manage the list. From top to bottom they are: **Add Item, Delete Item, Move Up,** and **Move Down.**

Expression Buttons

(Add Item)

Adds the currently selected object ID to the Expressions list.

(Delete Item)

Removes the currently selected object ID to the Expressions list.

(Move Up)

Moves the object ID, selected in the Expressions list up one position with each click.

(Move Down)

Moves the object ID, selected in the Expressions list down one position with each click.

Notes

This area allows you to enter a detailed description for the current column.

Buttons

Add (to Table)

Adds the currently selected column to the FlexView Columns list.

Undo (Clear Notes)

Clears the notes panel.

Save (changes to column)

Applies changes to the current column selection.

FlexView Memorized Tab

The **Memorized** tab makes frequently used information readily available without the need to search through the supported MIBs on the **View Details** tab. Initially, the Memorized tab contains information that was used to create the Interfaces tab (default FlexView) in Atlas' main window. You can add MIB objects to the Memorized tab to make it easier to create FlexViews.

**Click areas in the window for more information.**
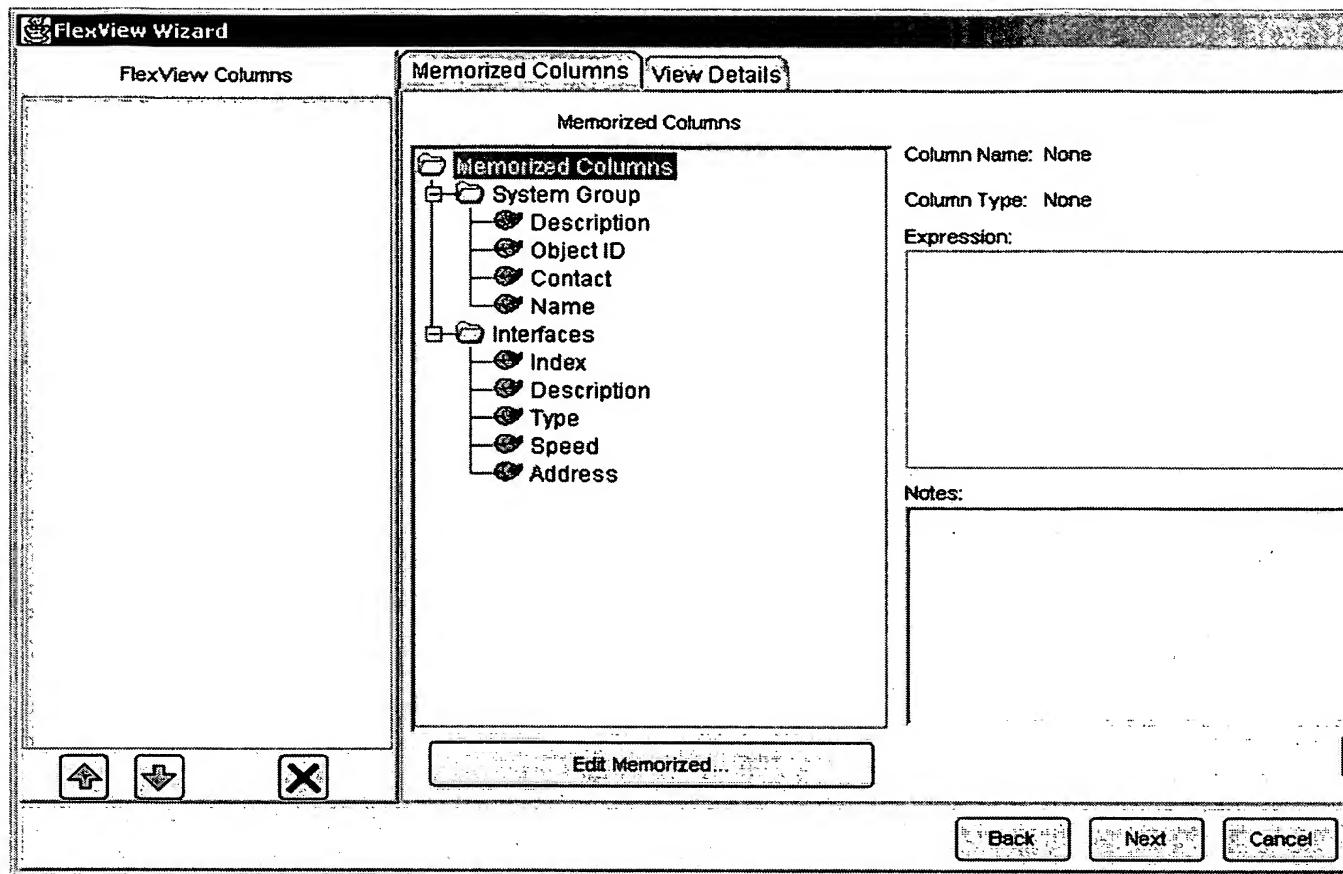
Memorized Columns

This panel contains a tree of all the columns that have been defined for MIB object IDs and added as memorized columns. The **Edit Memorized** button below this panel opens the **Manage Memorized Columns** window where you can define your own memorized columns. With a column is selected from the Memorized Columns tree, clicking the Add button adds the column to the **FlexView Columns** panel.

Buttons

Edit Memorized

The Edit Memorized button below this panel opens the Manage Memorized Columns window where you can define your own memorized objects. When an object is selected from the Memorized Columns, the Add button adds the object to the FlexView Columns panel.

Finish Window

This window lists the columns that you've chosen for your FlexView and gives you the opportunity to rearrange their order and select the default presentation (table, bar graph, or pie char) that appears when your FlexView is first opened.

Click areas in the window for more information.
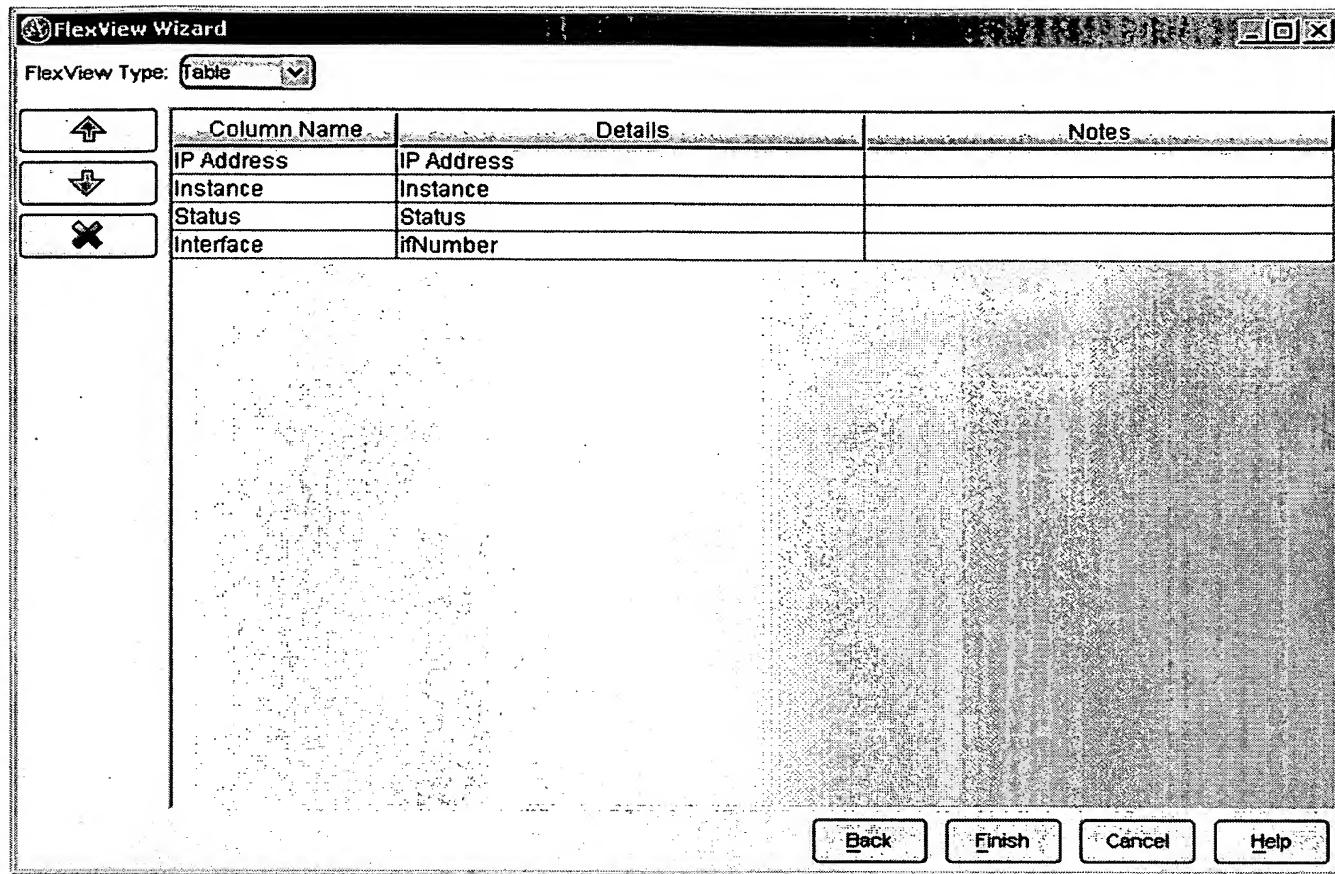
FlexView Type

> This pull-down list lets you select which type of FlexView (table, bar graph, or pie chart) will be the default presentation type for your new FlexView. The default type appears when the FlexView is initially opened.

Buttons

⬆ (Move Up)

> Moves the selected column up one position with each click.

⬇ (Move Down)

> Moves the selected column down one position with each click.

✖ (Delete Item)

> Removes the currently selected column from the list.

Related Information

For information on related windows:

- Main Window
- Manage Memorized Columns
- Interfaces Tab

For information on related tasks:

- How to Create FlexViews

- How to Manage Memorized Columns

FlexView Tabs (default tab)

FlexViews are powerful tools that show can be used to display MIB objects and set values for those those objects when are writable in devices. The information presented in FlexViews can be viewed as a table, bar graph or pie chart by selecting the appropriate icon near the top of the view. When NetSight Atlas is initially installed, the default FlexView is accessible on the default tab in the right panel. A standard set of FlexViews are available with NetSight Atlas and NetSight Atlas Lite and in NetSight Atlas, you can use the FlexView Wizard to create and save your own FlexViews.

Interfaces - Table View

Click on column headings and areas in the view for more information.
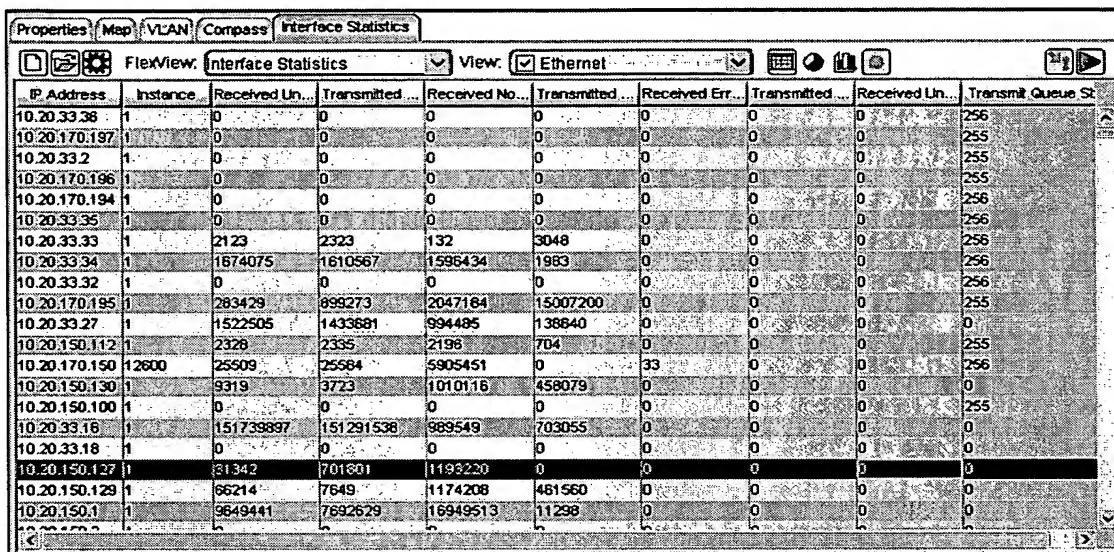
IP Address	Instance	Received Un...	Transmitted	Received No...	Transmitted	Received Err...	Transmitted	Received Un...	Transmit Queue St
10.20.33.38	1	0	0	0	0	0	0	0	256
10.20.170.197	1	0	0	0	0	0	0	0	255
10.20.33.2	1	0	0	0	0	0	0	0	255
10.20.170.196	1	0	0	0	0	0	0	0	255
10.20.170.194	1	0	0	0	0	0	0	0	256
10.20.33.35	1	0	0	0	0	0	0	0	256
10.20.33.33	1	2123	2323	132	3048	0	0	0	256
10.20.33.34	1	1674075	1610567	1596434	1983	0	0	0	256
10.20.33.32	1	0	0	0	0	0	0	0	256
10.20.170.195	1	283429	899273	2047164	15007200	0	0	0	255
10.20.33.27	1	1522505	1433681	994485	138640	0	0	0	0
10.20.150.112	1	2328	2335	2196	704	0	0	0	255
10.20.170.150	12600	25509	25584	5905451	0	33	0	0	256
10.20.150.130	1	9319	3723	1010116	458079	0	0	0	0
10.20.150.100	1	0	0	0	0	0	0	0	255
10.20.33.16	1	151739897	151291538	989549	703055	0	0	0	0
10.20.33.18	1	0	0	0	0	0	0	0	0
10.20.150.127	1	31342	701801	1193220	0	0	0	0	0
10.20.150.129	1	66214	7649	1174208	461560	0	0	0	0
10.20.150.1	1	9649441	7692629	16949513	11298	0	0	0	0

New

This button opens the FlexView Wizard. The wizard takes you step-by-step through the process of creating your own FlexViews (Not available in NetSight Atlas Lite).

Open

This button opens the FlexView file browser that allows you to select a FlexView to be added to the FlexView drop-down list for viewing.

Properties

This button opens the FlexView Wizard for the selected FlexView where you can edit the elements being presented in the view.

FlexView

This drop-down list lets you open a previously defined FlexView, open a FlexView with the FlexView file browser, or access the FlexView Wizard to create a new FlexView. The name on the Interfaces tab changes to show the currently selected FlexView.

View

This drop-down list only appears when a FlexView contains a MIB object from the ifInterfaces group. It lets you select from a list of interface types to limit the information that appears in the view to the selected types. You can select All, None or multiple interface types.

View Type Buttons

You can display the information retrieved from devices in a table, as a bar graph or as a pie chart by clicking the associated icon.

Show/Hide Table Editor

This button is active only when writeable MIB objects appear in the current FlexView. This button toggles the Table Editor that allows you to change the value in the table for those writeable objects.

Enforce

This button is active when an when writeable MIB objects appear in the current FlexView. You can edit these fields directly in the table and then click **Enforce** to change the value for the writeable objects on all of the devices in the currently selected device group.

> **CAUTION:** Enforcing certain MIB objects can disable devices and cause interruptions to network operation. Do Not enforce MIB values unless you are sure of the outcome.

Start/Stop

This button controls polling the devices in the selected device group. Initially, polling is stopped and this is a Start (green arrow) button. Polling is started by clicking the Start button and the icon changes to a Stop symbol (red octagon) while polling is in progress and when polling is completed, returns to Start (green arrow). Clicking Stop, immediately stops polling; clicking Start initiates a new polling cycle.

Interfaces Table

The Interfaces table lists the IP Address, Instance, Index, Speed, Description, In Octets, and Out Octets for the interfaces on the devices in the Device Group selected in the left panel.

Right clicking a column heading displays a popup menu that allows you to Find specific entries in the table, Filter entries from the table, Sort table entries, and Export the table to a text or html file.

Interfaces - Bar Graph and Pie Chart Views

You can use the Bar Graph and Pie Chart views to selectively view values in the table.

Click areas in the view for more information.
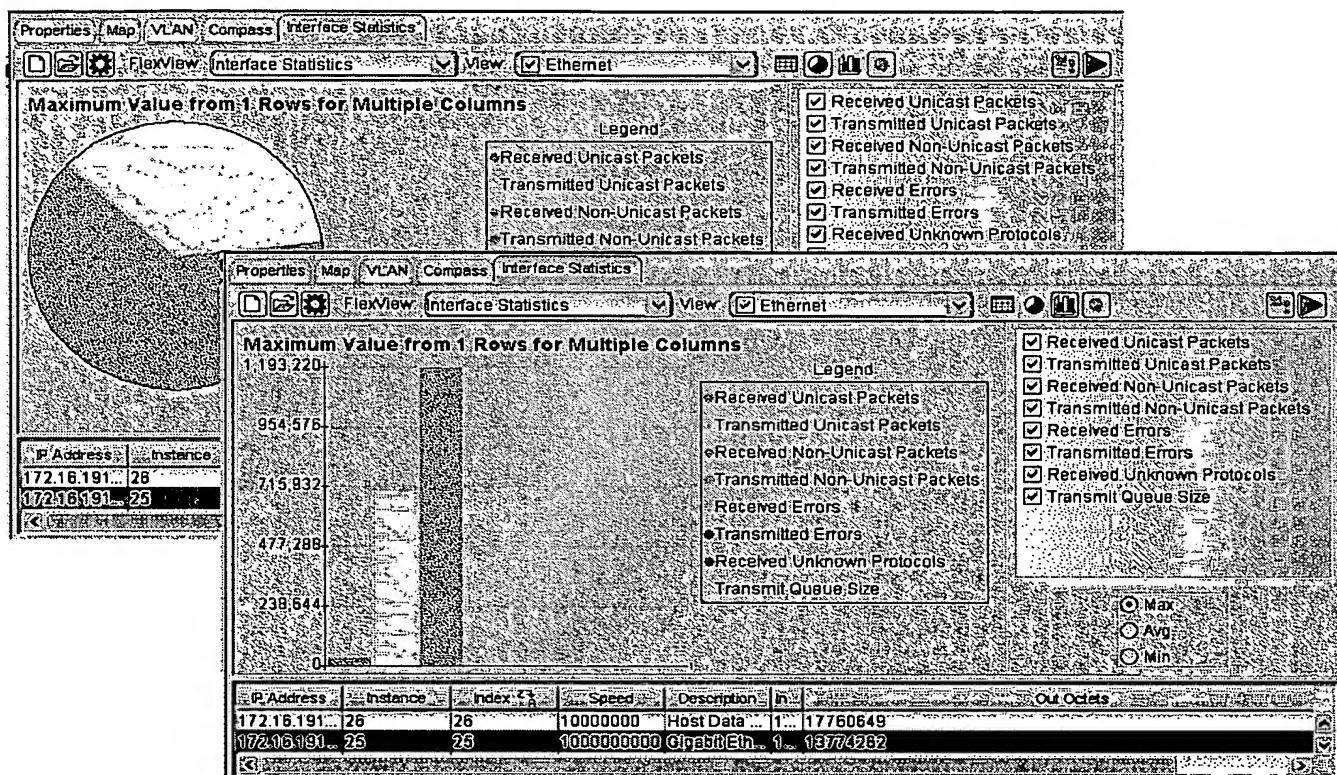
Bar/Slice (column) Definitions

Legend

The Legend lists the interfaces that are represented in the graph/chart and shows the color associated with each interface

.

Column selection:

You can select which columns from the table are represented by bars in the Bar Graph or slices in the Pie Chart. Each column selected will be used to create the graph/chart.

Interface selection:

This area lets you define the number of bars or slices (one for each interface) in your graph/chart based on their values.

With one attribute selected the interfaces presented in the chart/graph is a set quantity of the Highest or Lowest values. When Other is selected the sum of the values for remaining interfaces are also shown in the graph/chart. For example, when Highest and Other are selected along with 10 in the field below, then the 10 highest values are shown ine the graph/chart along with the sum of all other values for the selected columns.

When multiple columns are selected, the selections change to Min, Max, and Average. Min shows the lowest value for each of the selected rows, Max shows the highest value for each of the selected rows and average shows the arithmetic mean value for each of the selected rows.

Related Information

For information on related windows:
- Main Window
- FlexView Wizard
- Memorized Columns Manager Window

FlexViews (default tab)

For information on related tasks:

- How to Create FlexViews
- How to Filter, Find, and Sort